

Scale. Scale of the female white, rather high convex, circular, with the exuviae central, the second exuvia covered with secretion, the first exposed and of a silvery color. Ventral scale quite thick, attached at its margin to the dorsal scale. Scale of male not observed.

♀. Length .8 mm. Of the usual turbinate form. Derm membranous throughout except for the large and heavily chitinized pygidium. Abdominal segments projecting slightly at the lateral margins, without marginal gland spines but with numerous, small submarginal ducts and a few such ducts on the dorsum.

Pygidium presenting a furrowed appearance. Anal opening at about the center. Median lobes alone well developed, widely separated, prominent, broad and with the tips rounded and minutely crenulate. Second and third pairs of lobes represented merely by low prominences. Gland spines wanting, except for a very small spine between the first and second lobes. Spines small; two between the median lobes; one both dorsally and ventrally at the outer, basal angle of both the first and second lobes and two or three beyond these. Tubular ducts numerous, scattered, those of the margin no larger than those of the dorsum. The arrangement may best be explained by the figure. On the ventral aspect there are on each side three rows of small ducts. Vaginal orifice directly beneath the anal orifice.

Notes. This is a rather peculiar species, perhaps most closely resembling *P. condaliae* Ferris (ref. cited), but differing in many respects, especially in not having the cephalothorax produced laterally and in the deeply furrowed appearance of the pygidium.

Additions to Insects of New Jersey No. 7

By ALAN S. NICOLAY, New Brunswick, New Jersey.

Since the publication of list No. 6* by Mr. H. B. Weiss the following records have been secured. Those followed by (Dcke.) were turned over to me by Mr. Weiss who obtained them through the courtesy of Prof. J. G. Sanders after the death of Mr. V. A. E. Daecke. Since the publication of the 1909 list by Smith, Mr. Daecke kept track of various additions and corrections as evinced by his notes. It was thought advisable, however, to omit his corrections from this list and to use only the additions.

* Ent. News, vol. xxix, pp. 309-312.

ODONATA.

Aeshna canadensis F. M. Wlk. Riverton, Sept. 22 (Deke.).

HOMOPTERA.

Idiocerus maculipennis Fitch. Jamesburg, July 4 (Deke.).

Psyllia cephalica Craw. Hammonton, May 21; on hornbeam (Nicolay & Weiss).

HEMIPTERA.

Corizus bohemani Sign. Merchantville, July 7 (Deke.).

Acalypta lillianis Bueno. Lakehurst, May 2 (Barber).

Corythucha mali Gibson. Lakehurst, May 24; on apple (Barber).

Corythucha salicis O. & D. Ramsey, May 21; on willow (Barber).

COLEOPTERA.

Gyrophypus fusciceps Lec. Riverton, May 3 (Deke.).

Chalcophora fortis Lec. New Brunswick, June 16; on dead white pine along Raritan River (West).

Poecilnota cyanipes var. *erecta* Gory. New Jersey (Nicolay collection). Note.—*P. cyanipes* records should be referred to this variety. The records of *P. thurcwa* Say from New Jersey are undoubtedly misidentifications and the species should be removed from the list.

Agrilus pensus Horn. Newfoundland, July 4 (Nicolay).

Xestocis levettei Casey. Milltown, May 18; Union, May 23; Monmouth Jc., May 30; in *Polyporus versicolor* and *Fomes aplanatus* (West & Weiss).

Cis curtula Casey. Monmouth Jc., May 30, June 10; in *Polyporus pergamenus* (Weiss & West).

Sulcacis lengi Dury. Princeton Jc.; breeds in *Polyporus versicolor*, *gilvus* and *hirsutus*, also *Lenzites betulina*. Overwinters as adult and larva (Weiss & West).

Xylotrechus aceris Fisher. Rutherford, August 16; one specimen resting on maple leaf in nursery (Nicolay).

Zeugophora scutellaris Suffr. Arlington, June 23-August; common on poplar in a nursery, doing some damage. A European species (Nicolay).

Chaetocnema quadricollis Schwarz. Hammonton, July 8; Rutherford, June-Sept., Eatontown, August 28; Westville, Little Silver, South Amboy; on hibiscus (Dickerson & Weiss).

Apion hibisci Fall. Arlington, Rutherford; galls on petioles of marsh mallow (Dickerson & Weiss).

LEPIDOPTERA.

Cosmia (Calymnia) orina Gn. Orange Mts.; larvae on oak, May 10; adults June 17 (Lemmer).

Tinea cloacella Haw. Matawan, New Brunswick; overwinters as larva, breeds in *Polyporus sulphureus* and *Isugae* (Weiss & West).

HYMENOPTERA.

- Spathius trifasciatus* Riley. Wenonah, July 15 (Dcke.).
Ichneumon inurbanus Cress. Manumuskim, September 20 (Dcke.).
Stomatocerus unipunctatipennis var. *americensis* Gir. Camden Co. (Fox, Ent. News, vol. xxix, p. 127).
Closterocerus cinctipennis Ashm. New Brunswick, Asbury, High Bridge, July. Parasitic upon eggs and larvae of *Brachys orata* (Weiss).
Exallonyx grandis Brues. Ramsey, August 22 (Jour. N. Y. Ent. Soc., vol. xxvii, p. 17).
Andronicus truncata Cress. Tom's River, July 12 (Dcke.).
Bombus bimaculatus Cress. Brown's Mills, June 17 (Dcke.).
Metopius pollinctorius Say. Elizabeth; reared from a Luna moth cocoon (Felt).
Ephedrus nitidus Gahan. New Brunswick; bred from cabbage aphids.

DIPTERA.

- Chrysopila proxima* Wlk. Wenonah, May 30 (Dcke.).
Dasyllis cinerea Back. Brown's Mills, May 19 (Dcke.).
Psilopodinus comatus Loew. Orange Mts., July 1 (Wdt.).
Argyra calceata Loew. Fort Lee, July 4 (Wdt.).
Neurigona maculata V. D. Forest Hill, August (Wdt.).
Neurigona floridula var. *infusca*, V. D. Wenonah, June 22 (Dcke.).
Dolichopus marginatus Ald. Barnegat City, August 12 (Harbeck.).
Tachytrechus laticrus Coq. Manahawken, July 30 (Ent. News, vol. xxix, p. 46).
Plagioneurus univittatus Loew. Cape May, August 9 (Dcke.).
Eumerus strigatus Fallen. (The lunate onion fly). Rutherford Riverton, Orange; all summer and occasionally in greenhouses during the winter. A European species now common in New Jersey; larvae live in onions and bulbs, sometimes causing serious injury (Nicolay).
Spilomyia quadrifasciata Say. Fort Lee, September 3 (Bequaert).
Crioprora cyanogaster Loew. Palisades, March 31; rare on pussywillow (Nicolay).
Pipiza pistica Williston. Lakehurst, June 20 (Nicolay).
Myiolepta nigra Loew. Lambertville, April 19; flying along road like bee (Nicolay).
Chilosia cyanescens Loew. New Brunswick, June 15 (Nicolay).
Xanthogramma felix O. S. Riverton, June 15 (Dcke.).
Helophilus bilinearis Williston. Secaucus, April 17-May 7; moderately abundant on dogwood and other blossoms (Nicolay).

- Chrysochlamys buccata* Loew. Malaga, April 26 (Nicolay).
Criorhina notata Wied. Manumuskim, May 19 (Dcke.).
Physocephala castanoptera Loew. Caldwell, August 5 (Nicolay).
Trichopoda lanipes Fabr. Mt. Airy, Philadelphia, Pa., August 23 (Laurent).
Clausicella tarsalis Coq. Lucaston, May 30 (Dcke.).
Hypostena nitens Coq. Stone Harbor, July 29 (Dcke.).
Phorocera tortricis Coq. Lucaston, August 6 (Dcke.).
Tachina rustica Fall. Forest Hill, August (Wdt.).
Masicera chaetoneura Coq. Forest Hill, June (Wdt.).
Masicera festinans Meig. Forest Hill, June (Wdt.).
Sturmia fraudulenta v. d. Wulp. Brown's Mills, May 21 (Dcke.).
Schizotachina convecta Wlk. Lucaston, Sept. 3 (Dcke.).
Theresia canescens Wlk. DaCosta, June 29 (Dcke.).
Helomyza latericia Loew. Lucaston, September 7 (Dcke.).
Ophthalmomyia lacteipennis Loew. Brown's Mills, June 22 (Dcke.).
Camptoprosopella verticalis Loew. DaCosta, June 3 (Dcke.).

Preliminary Notes on Texas Tachinidae (Diptera).

By H. J. REINHARD, Entomologist, Texas Experiment Station, College Station, Texas.

The Tachinidae listed in this paper were all collected on the campus of the Agricultural and Mechanical College, or in the immediate vicinity of College Station, Texas, unless otherwise mentioned. The relative abundance of flies in this locality, belonging to the family, was the impetus to give them more than casual attention. Three years of intermittent collecting have resulted in a large number of specimens being taken, many of which have not been heretofore recorded from this state. The purpose of these collections was to determine the relative abundance of the various species with a view to ascertain their economic importance in a more comprehensive manner at some future time.

All plant determinations were made through the kindness of Messrs. H. Ness, Horticulturist, and H. B. Parks, Apiculturist, of the Texas Agriculture Experiment Station.

Archytas analis Fabricius. This is one of the most common species of this locality. It appears in early February and is very abundant throughout the spring and fall months. Less common in